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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

22045 7590 09/03/2010 BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR

SOUTHFIELD, MI 48075

EXAMINER
FLETCHER, JERRY-DARYL
ART UNIT PAPER NUMBER
3715
DATE MAILED: 09/03/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/595,306	11/17/2006	Oystein Gomo	PROT0103PUSA	7125			
TITLE OF INVENTION; MEDICAL PATIENT STIMULATOR							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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SOUTHFIELD,	MI 48073					(Depositor's name)
			_			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,306 TITLE OF INVENTION	11/17/2006 : MEDICAL PATIENT	STIMULATOR	Oystein Gomo		PROTO103PUSA	7125
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	TEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/03/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1		
FLETCHER, JE	ERRY-DARYL	3715	434-267000	•		
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2	2. For printing on the p  (1) the names of up to or agents OR, alternati- (2) the name of a single registered attorney or 2 registered patent atto- listed, no name will be  THE PATENT (print or typ data will appear on the p T a substitute for filling an (B) RESIDENCE: (CITY	3 registered patent a vely, ely, and the names rneys or agents. If no printed.	nember a 2of up to aname is 3is identified below, the o	document has been filed for
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- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.			ENTITY status. See 37 C	
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Typed or printed name				Registration No.		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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1000 TOWN CE		ART UNIT	PAPER NUMBER		
TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075			3715 DATE MAII ED: 09/03/201	0	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 39 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 39 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/595,306 GOMO, OYSTEIN Notice of Allowability Examiner Art Unit JERRY ELETCHER 3715 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 06/25/2010. The allowed claim(s) is/are 1,3,4,7,11-13,15 and 18. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \( \overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/Kathleen Mosser/ Primary Examiner, Art Unit 3715

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#### DETAILED ACTION

### Response to Amendment

 The applicant's amendments to claim 15 that were submitted on 05/14/2010 have been received and entered

# Allowable Subject Matter

- 2. Claims 1, 3-4, 7, 11-13, 15 and 18 are allowed.
- The following is a statement of reasons for the indication of allowable subject matter:

With respect to independent claims 1 and 15, the claims positively recite an elastic pulling strap that is attached to the inside of the skin of a torso for pulling down the chest skin of the torso. The prior art references of Lampotang, Gordon and Pollock neither individually nor in combination, all fail to specifically teach or reasonably suggest the claimed elastic pulling strap attached to the inside of the chest skin. Furthermore, it is noted that it is agreed that Pollock was erroneously relied on to teach an elastic strap to simulate skin movement. Also, the applicant's arguments regarding the difference between breathing and subcostal retractions that are presented on page 10 of the applicant's response filed on 06/25/2010 are convincing, and it is agreed that a mechanism for pulling the skin down is required as opposed to the previous rejection based on the push rods of Gordon, which did not simulate subcostal retractions, but

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rather breathing motions, by pushing upwards on the torso instead of pulling down on the torso. Dependent claim 3 is allowable for similar reasons. Furthermore, with respect to claim 15, the applicant positively recites that a bellows is located between a chest plate that is hinged to a lever such that the chest plate, the bellows and the lever are adapted to move with the inflation and deflation of an artificial lung. This specific arrangement is neither taught, nor suitably suggested by the prior art of record. Specifically, prior art references of Lampotang, Gordon and Pollock, when combined as in the above rejection of claim 3, teach that the bellows, the chest plate and the lung are electronically coupled by the controllers of Lampotang. The prior art references, however, are silent as to the matter of the lever assembly, or how the lever assembly, coupled with the plate and the bellows are adapted to move with the inflation and deflation of the artificial lung.

With respect to independent claim 4 the applicant's recitation of the assembly of the simulator with a bellows being used to force a first plate towards a second plate where the bellows is attached to the second plate by a flexible means is neither taught nor reasonably suggested by the prior art of record. Lampotang teaches the use of a bellows for simulating lung movement and pressure, but fails to specifically teach the claimed assembly with the lungs disposed between two plates with one plate being moveable and the other plate being fixed, and where the bellows is located between them and is connected to one of the plates by a flexible means. Ingenito teaches a simulation dummy with a lung between two plates, but fails to cure the deficiency in Lampotang of the bellows being attached to a plate by a flexible means. When

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combined with the well known teaching of using flexible or rigid connectors for force transfer, Lampotang and Ingenito fail to teach or reasonably suggest the claimed invention because they fail to address the specificity of the assembly with regards to the flexible means being used to attach the bellows to the plate. Dependent claims 11-13 and 18 are allowable for similar reasons.

With respect to independent claim 7 the prior art of Lampotang, Johnson and Thu fail to either teach or reasonably suggest the claimed invention. Lampotang fails to teach the claimed assembly with the air cushion actuators designed to operate in the claimed modes. Johnson teaches the use of actuators in a simulated patient, but fails to either teach that the actuators are used for simulating muscle motion or that the actuators are positioned at the backside of the torso, as required by the claims. Thu, while teaching the simulation of breathing, muscle spasms and defibrillation in a manikin, fails to either teach or reasonably suggest that these simulations are achieved by using air cushion actuators, or the claimed assembly. The references neither in combination nor separately teach or reasonably suggest the claimed invention since they fail to address the actuator positions and modes that are required by the claims. The applicant has persuasively argued, on page 14 of the submission filed on 06/25/2010, that the position of the rotacs of Johnson is not the position required by the claims, and further that the rotacs are not used for simulating muscle spasms. Thu fails to cure this deficiency since Thu fails to teach the use of rotacs or any other actuators to simulate muscle spasms. When combined, Lampotang, Johnson and Thu fail to teach the claimed invention since there is no teaching or reasonable suggestion of the use of

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actuators positioned as claimed by the applicant that are designed to operate to simulate muscle spasms or defibrillation. At most the references, when combined, teach that it is known to provide a torso with actuators and that it is known to simulate muscles spasms and defibrillation, but fail to specifically teach the claimed actuator locations, or indeed that the actuators are being used to simulate the muscle spasms and defibrillation.

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JERRY FLETCHER whose telephone number is (571)270-5054. The examiner can normally be reached on Monday to Friday 9:00 a.m. to 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan M. Thai can be reached on (571) 272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kathleen Mosser/ Primary Examiner, Art Unit 3715

/J.D.F./ Examiner, Art Unit 3715